

## EAST Search History

### EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	49	((HORST) near2 (VESTWEBER)).INV.	US-PGPUB; USPAT	OR	OFF	2010/05/14 14:19
L2	23	((ANJA) near2 (GERHARD)).INV.	US-PGPUB; USPAT	OR	OFF	2010/05/14 14:19
L3	1	((PHILIPP) near2 (STOBEL)).INV.	US-PGPUB; USPAT	OR	OFF	2010/05/14 14:19
L4	160	triazine\$ and spirobifluorene	US-PGPUB; USPAT	OR	ON	2010/05/14 14:21
L5	28	((HORST) near2 (VESTWEBER)).INV. and L4	US-PGPUB; USPAT	OR	ON	2010/05/14 14:21
S3	1	"20020034659"	US-PGPUB; USPAT	OR	OFF	2009/06/09 13:33
S4	1	"6329082".pn.	US-PGPUB; USPAT	OR	ON	2009/06/09 13:36
S5	1	"5840217".pn.	US-PGPUB; USPAT	OR	ON	2009/06/09 13:36
S6	1	"6352791".pn.	US-PGPUB; USPAT	OR	ON	2009/06/09 13:52
S7	1	"6229012".pn.	US-PGPUB; USPAT	OR	ON	2009/06/09 13:53
S8	1814	(OLED or (light with emitt\$3)) and phosphorescent and (hole adj3 block\$3)	US-PGPUB; USPAT	OR	ON	2009/06/09 13:55
S9	35	(OLED or (light with emitt\$3)) and phosphorescent and (hole adj3 block\$3) with (heterocyc\$7 or triazine\$2 or heteroaryl or \$5aryl)	US-PGPUB; USPAT	OR	ON	2009/06/09 13:58
S10	51	(OLED or (light with emitt\$3)) and phosphorescent and (hole adj3 block\$3) and triazine\$ and spirobifluorene	US-PGPUB; USPAT	OR	ON	2009/06/09 14:01
S11	26	triazine\$ with spirobifluorene	US-PGPUB; USPAT	OR	ON	2009/06/09 14:05

S12	5	triazine\$ with spirofluorene	US-PGPUB; USPAT	OR	ON	2009/06/09 14:27
S13	67	hetero\$7 with spirobifluorene	US-PGPUB; USPAT	OR	ON	2009/06/09 14:27
S16	1	"20020034659"	US-PGPUB; USPAT	OR	ON	2009/06/09 15:41
S17	1	"20020034659"	US-PGPUB; USPAT	OR	ON	2009/06/09 16:01
S18	1	"20040147742".pn.	US-PGPUB; USPAT	OR	ON	2009/06/09 16:08
S19	121	triazine\$ and spirobifluorene	US-PGPUB; USPAT	OR	ON	2009/06/09 16:17
S22	6	triazine\$ and spirobifluorene	DERWENT	OR	ON	2009/06/09 16:18
S23	1	"2007520875".pn.	DERWENT	OR	ON	2009/06/09 16:21
S24	8153	phosphorescent and (Perylene or molybdenum or tungsten or rhenium or ruthenium or osmium or rhodium or iridium or palladium or platinum or silver or gold or europium)	US-PGPUB; USPAT	OR	ON	2009/06/10 08:47
S25	182	phosphorescent and Perylene with (molybdenum or tungsten or rhenium or ruthenium or osmium or rhodium or iridium or palladium or platinum or silver or gold or europium)	US-PGPUB; USPAT	OR	ON	2009/06/10 08:48
S26	8	phosphorescent and Perylene adj3 (molybdenum or tungsten or rhenium or ruthenium or osmium or rhodium or iridium or palladium or platinum or silver or gold or europium)	US-PGPUB; USPAT	OR	ON	2009/06/10 08:48

S27	776	Perylene with complex \$3 with (molybdenum or tungsten or rhenium or ruthenium or osmium or rhodium or iridium or palladium or platinum or silver or gold or europium)	US-PGPUB; USPAT	OR	ON	2009/06/10 08:51
S28	206	Perylene with complex \$3 with (molybdenum or tungsten or rhenium or ruthenium or osmium or rhodium or iridium or palladium or platinum or silver or gold or europium) and electrolumin\$7	US-PGPUB; USPAT	OR	ON	2009/06/10 08:51
S29	0	(Perylene adj3 dop\$3) adj3 (molybdenum or tungsten or rhenium or ruthenium or osmium or rhodium or iridium or palladium or platinum or silver or gold or europium) and electrolumin\$7	US-PGPUB; USPAT	OR	ON	2009/06/10 08:54
S30	186	(Perylene adj3 dop\$3)	US-PGPUB; USPAT	OR	ON	2009/06/10 08:55
S31	8	(Perylene adj3 dop\$3) with metal	US-PGPUB; USPAT	OR	ON	2009/06/10 08:55
S32	103	(phosphorescent adj4 dop\$3) adj4 (molybdenum or tungsten or rhenium or ruthenium or osmium or rhodium or iridium or palladium or platinum or silver or gold or europium)	US-PGPUB; USPAT	OR	ON	2009/06/10 08:59
S33	5	(phosphorescent adj4 dop\$3) adj4 (molybdenum or tungsten or rhenium or ruthenium or osmium or rhodium or iridium or palladium or platinum or silver or gold or europium) and spirobifluorene	US-PGPUB; USPAT	OR	ON	2009/06/10 08:59

S36	43	(phosphorescent adj4 dop\$3) adj4 (molybdenum or tungsten or rhenium or ruthenium or osmium or rhodium or iridium or palladium or platinum or silver or gold or europium) and perylene	US-PGPUB; USPAT	OR	ON	2009/06/10 09:04
S37	44	(phosphorescent adj4 dop\$3) and spirobifluorene	US-PGPUB; USPAT	OR	ON	2009/06/10 09:05
S38	1	"7498437".pn.	US-PGPUB; USPAT	OR	ON	2009/06/10 09:08
S39	69	(phosphorescent adj4 emit\$3) and spirobifluorene	US-PGPUB; USPAT	OR	ON	2009/06/10 09:18
S40	1	"6229012".pn.	US-PGPUB; USPAT	OR	ON	2009/06/10 09:21
S41	99	spirobifluorene\$ with (carbazoles or ketones or imines or phosphine oxides or phosphine sulfides or phosphine selenides or phosphazenes or sulfones or sulfoxides or silanes or polypodal adj3 metal or oligophenylene\$)	US-PGPUB; USPAT	OR	ON	2009/06/10 09:25
S42	12	spirobifluorene\$ adj4 (carbazoles or ketones or imines or phosphine oxides or phosphine sulfides or phosphine selenides or phosphazenes or sulfones or sulfoxides or silanes or polypodal adj3 metal or oligophenylene\$)	US-PGPUB; USPAT	OR	ON	2009/06/10 09:25

S43	525	spirobifluorene\$ and (carbazoles or ketones or imines or phosphine oxides or phosphine sulfides or phosphine selenides or phosphazenes or sulfones or sulfoxides or silanes or polypodal adj3 metal or oligophenylene\$)	US-PGPUB; USPAT	OR	ON	2009/06/10 09:28
S44	42	spirobifluorene\$ and (carbazoles or ketones or imines or phosphine oxides or phosphine sulfides or phosphine selenides or phosphazenes or sulfones or sulfoxides or silanes or polypodal adj3 metal or oligophenylene\$) with phosphores\$7	US-PGPUB; USPAT	OR	ON	2009/06/10 09:29
S45	109	spirobifluorene\$ and triazine and polymer	US-PGPUB; USPAT	OR	ON	2009/06/11 08:42
S46	11	spirobifluorene\$ and triazine with polymer	US-PGPUB; USPAT	OR	ON	2009/06/11 08:42
S47	4669	triazine with polymer	US-PGPUB; USPAT	OR	ON	2009/06/11 09:32
S49	0	triazine with polymer with spirobifluorene\$	EPO; JPO	OR	ON	2009/06/11 09:33
S50	500	triazine with polymer	EPO; JPO	OR	ON	2009/06/11 09:33
S51	1	"6870198".pn.	USPAT	OR	OFF	2009/06/20 08:27
S52	0	perylene adj phosphores\$3	US-PGPUB; USPAT	OR	ON	2009/06/20 08:33
S53	0	perylene adj3 phosphores\$3	US-PGPUB; USPAT	OR	ON	2009/06/20 08:33
S54	0	perylene\$5 adj3 phosphores\$3	US-PGPUB; USPAT	OR	ON	2009/06/20 08:33
S55	1	perylene\$5 with phosphores\$3	US-PGPUB; USPAT	OR	ON	2009/06/20 08:34
S56	0	perylene\$5 with phosphores\$3	EPO; JPO	OR	ON	2009/06/20 08:35
S57	1	\$5perylene\$5 with phosphores\$4	EPO; JPO	OR	ON	2009/06/20 08:36

S58	137	\$5perylene\$5 with phosphores\$4	US-PGPUB; USPAT	OR	ON	2009/06/20 08:36
S59	13	\$5perylene\$5 adj3 phosphores\$4	US-PGPUB; USPAT	OR	ON	2009/06/20 08:37
S60	1	"6872824"	USPAT	OR	OFF	2009/12/16 09:11
S61	3	"2005053055"	DERWENT	OR	OFF	2009/12/16 09:13
S62	1	"6352791".pn.	US-PGPUB; USPAT	OR	OFF	2009/12/16 09:15
S63	1	"6229012".pn.	US-PGPUB; USPAT	OR	OFF	2009/12/16 09:16
S64	212	(pyridazine\$ or pyrmifine\$ or pyrazine\$ or triazine\$) and spirobifluorene	US-PGPUB; USPAT	OR	ON	2009/12/16 09:34
S65	0	(pyridazine\$ or pyrmifine\$ or pyrazine\$ or triazine\$) and spirobifluorene and (hole adj2 block43)	US-PGPUB; USPAT	OR	ON	2009/12/16 09:34
S66	233	(pyridazine\$ or pyrimidine\$ or pyrazine \$ or triazine\$) and spirobifluorene	US-PGPUB; USPAT	OR	ON	2009/12/16 09:36
S67	41	(pyridazine\$ or pyrimidine\$ or pyrazine \$ or triazine\$) with spirobifluorene	US-PGPUB; USPAT	OR	ON	2009/12/16 09:36
S68	0	(hole adj2 blockinh) and spirobifluorene	US-PGPUB; USPAT	OR	ON	2009/12/16 09:37
S69	609	spirobifluorene	US-PGPUB; USPAT	OR	ON	2009/12/16 09:37
S70	212	spirobifluorene and (hole with blocking)	US-PGPUB; USPAT	OR	ON	2009/12/16 09:38
S71	88	spirobifluorene and (hole with blocking) and (pyridazine\$ or pyrmifine\$ or pyrazine\$ or triazine\$)	US-PGPUB; USPAT	OR	ON	2009/12/16 09:38
S72	4887	triazine with polymer	US-PGPUB; USPAT	OR	ON	2009/12/16 12:06
S73	212	(pyridazine\$ or pyrmifine\$ or pyrazine\$ or triazine\$) and spirobifluorene	US-PGPUB; USPAT	OR	ON	2009/12/16 12:06

S74	11	S72 and S73	US-PGPUB; USPAT	OR	ON	2009/12/16 12:06
S75	1	"5840217".pn.	US-PGPUB; USPAT	OR	ON	2009/12/16 12:09
S76	1	"5077142".pn.	US-PGPUB; USPAT	OR	ON	2009/12/16 12:10
S77	95	spirobifluorene\$ and (carbazoles or ketones or imines or phosphine oxides or phosphine sulfides or phosphine selenides or phosphazenes or sulfones or sulfoxides or silanes or polypodal adj3 metal or oligophenylene\$) and (phosphorescent with dop\$5)	US-PGPUB; USPAT	OR	ON	2009/12/16 12:12
S78	89	spirobifluorene\$ and (carbazoles or ketones or imines or (phosphine adj2 oxide \$2) or (phosphine adj2 sulfide\$2) or (phosphine adj2 selenide\$2) or phosphazene\$2 or sulfone\$2 or sulfoxide \$2 or silane\$2 or (polypodal adj3 metal) or oligophenylene\$) and (phosphorescent with dop\$5)	US-PGPUB; USPAT	OR	ON	2009/12/16 12:16
S79	1	"6329082".pn.	US-PGPUB; USPAT	OR	ON	2009/12/16 12:35
S80	110	(pyridazine\$5 or pyrmifine\$5 or pyrazine \$5 or triazine\$5) with (hole adj block\$3) or (electron adj2 transport \$3) and cbp with (phosphorescent adj dop\$5)	US-PGPUB; USPAT	OR	ON	2009/12/16 12:39

S81	9	(pyridazine\$5 or pyrimidine\$5 or pyrazine\$5 or triazine \$5) with ((hole adj block\$3) or (electron adj2 transport\$3)) and cbp with (phosphorescent adj dop\$5)	US-PGPUB; USPAT	OR	ON	2009/12/16 12:41
S82	43	(pyridazine\$5 or pyrimidine\$5 or pyrazine\$5 or triazine \$5) with ((hole adj block\$3) or (electron adj2 transport\$3)) and cbp with dop\$5	US-PGPUB; USPAT	OR	ON	2009/12/16 12:43
S83	1	"6329082".pn.	US-PGPUB; USPAT	OR	ON	2009/12/16 12:54
S84	1	"5840217".pn.	US-PGPUB; USPAT	OR	ON	2009/12/16 13:08

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